

### REMARKS

Applicants appreciate the Examiner's thorough consideration provided the present application. Claims 8, 10-23 and 25-27 are now present in the application. Claims 8, 14 and 19 have been amended in this Reply. Claims 8, 14 and 19 are independent. Reconsideration of this application, as amended, is respectfully requested.

#### **Claim Rejections Under 35 U.S.C. §§ 102 and 103**

Claims 8, 10-12, 14-17, 19-22 and 25-27 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Lopatinsky et al. U.S. Patent No. 6,659,169. Claims 13, 18 and 23 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Lopatinsky in view of Itoh et al., U.S. Patent No. 4,926,242 (hereinafter "Itoh"). These rejections are respectfully traversed.

In light of the foregoing amendments, Applicants respectfully submit that this rejection has been obviated and/or rendered moot. Without conceding to the propriety of the Examiner's rejection, but merely to timely advance the prosecution of the application, as the Examiner will note, independent claims 8, 14 and 19 have been amended.

Independent claim 8 now recites a combination of elements including "a centrifugal fan including a rotary shaft, a motor and a plurality of blades; a heat sink, including a plurality of first cooling fins and a plurality of second cooling fins located at the same plane as the first cooling fins, wherein an annular cavity is defined between the first cooling fins and the second cooling fins, and *the second cooling fins include a lower fin structure and a normal fin structure*; and a cover formed on the heat sink and the centrifugal fan; wherein the motor for driving the rotary shaft is mounted below the cover and away from the heat sink, the blades are located in the cavity and extended toward a bottom of the heat sink, and there is a distance between the rotary shaft and the second cooling fins so that the entire rotary shaft is located above the *lower fin structure of the second cooling fins*, and the rotary shaft is positioned away from the lower fin structure of the second cooling fins."

Independent claim 14 recites a combination of elements including "a heat sink, including a plurality of first cooling fins and a plurality of second cooling fins located at the same plane as the first cooling fins, wherein a cavity is defined between the first cooling fins and the second cooling fins, and *the second cooling fins include a lower fin structure and a normal fin structure*; a cover connected to the heat sink and having corners directly contacted to the first cooling fins; and a centrifugal fan including a rotary shaft, a motor and a plurality of blades disposed around the hub, wherein the motor for driving the rotary shaft is mounted below the cover and away from the heat sink, the blades are located in the cavity and extended beyond a top surface of the heat sink, the entire rotary shaft is located above the lower fin structure of the second cooling fins, and the rotary shaft is positioned toward the cover to be away from the lower fin structure of the second cooling fins."

Independent claim 19 recites a combination of elements including "a heat sink, including a plurality of first cooling fins and a plurality of second cooling fins located at the same plane as the first cooling fins, wherein a cavity is defined between the first cooling fins and the second cooling fins, and *the second cooling fins include a lower fin structure and a normal fin structure*; a centrifugal fan having an axial direction and a radial direction and including a rotary shaft, a motor and a plurality of blades; and a cover, including a plurality of inlets, mounted onto said heat sink and said centrifugal fan, wherein air from ambient is flowed in the axial direction of the centrifugal fan into the heat sink from the inlets of the cover, and is flowed in the radial directions of the centrifugal fan and out of the heat sink; wherein the motor for driving the rotary shaft is mounted below the cover and away from the heat sink, the blades are located in the cavity and extended toward a bottom of the heat sink, and there is a distance between the rotary shaft and the second cooling fins so that the entire rotary shaft is located above the lower fin structure of the second cooling fins, and the rotary shaft is positioned away from the lower fin structure of the second cooling fins."

Applicants respectfully submit that the above combinations of elements as set forth in independent claims 8, 14 and 19 are not disclosed nor suggested by the reference relied on by the Examiner.

In particular, as illustrated in Fig. 3 of the present application, the second cooling fins 130 include a lower fin structure 131 and a normal fin structure. The Examiner on page 3 of the Office Action referred to the elements 112 shown in Fig. 8 of Lopatinsky as the second cooling fins of the present invention. However, referring to Fig. 8 of Lopatinsky, the needles 112 are of the same height. By direct contrast, in the present invention as embodied in Fig. 3, the lower fin structure of the second cooling fins is shorter than the normal fin structure of the second cooling fins, and the height of the normal fin structure of the second cooling fins is substantially identical to the height of the fin structure of the first cooling fins. In view of this, Applicants respectfully submit that Lopatinsky at least fails to teach or suggest *"the second cooling fins include a lower fin structure and a normal fin structure"* as recited in claims 8, 14 and 19.

With regard to the Examiner's reliance on Itoh, this reference has only been relied on for its teaching against some dependent claims. It is submitted that Itoh also fails to disclose the above-mentioned feature set forth in claims 8, 14 and 19, and thus fails to cure the deficiency of Lopatinsky.

Since Lopatinsky and Itoh, either taken alone or in combination, fail to teach each and every limitation of independent claims 8, 14 and 19, Applicants respectfully submit that claims 8, 14 and 19 and their dependent claims (at least due to their dependency) clearly define over the teachings of Lopatinsky and Itoh. Accordingly, reconsideration and withdrawal of the rejection under 35 U.S.C. §§ 102 and 103 are respectfully requested.

## CONCLUSION


It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Cheng-Kang (Greg) Hsu, Registration No. 61,007 at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

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Respectfully submitted,

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